TEVENER, M.S., doktor med.nauk (Leningrad, Nebereshnaya r. Moyki d. 18, kv. 24); STRUKOV, M.V.

Indices of the results of prosthesis following amputations, diseases and lesions of the locomotor apparatus. Ortop., travm. i protez. 25 no.12x18.23 D '64.

(MER 19:1)

1. Iz Leningradskogo instituta protezirovaniya (direktor - dotsent M.V. trukov). Submitted January 23; 1964.

# "APPROVED FOR RELEASE: 08/26/2000

在。1995年的出来的特殊的特殊的,在中央的特殊的对抗的企图,1996年的1996年的1996年的1996年的1996年的1996年的1996年,1996年的1996 1996年的1996年的1996年的1996年的1996年的1996年的1996年的1996年的1996年的1996年的1996年的1996年的1996年的1996年的1996年的1996年的1996年的1996年的19

# CIA-RDP86-00513R001653610017-1

mel 2

Journal of the Iron and Steel Juntitute Vol. 176 Fort 3 Mar. 1954 Froming Tractice Mechanization of Making Up the Charge and of Changing Cupelin with Skip Hoists. L. Z. Belostotsku and N. A. Carokov, "Assemble Proceeds at 1953, 3, 43, 15-18. [In Review] Mechanized methods for charging cupolar and making up the charge are compared, the rate of production for which costs is best suited being considered as a K.

STRUKOV, N.A., inzhener.

Automatic forming of piston ring molds. Mekh.trud.rab. 7 no.5:44-45 My
(MLRA 6:5)
153.

(Founding)

Changes in mechanical properties and plasticity of 40KhN and 40Kh steels. Sbor.nauch.trud.Fiz.-tekh.inst.AN BSSR no.1:26-

38 154.

(Steel alloys -- testing) (Metals, Effect of temperature on)

(MIRA 10:1)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610017-1"

51-4-9/20

Nosenko, B. M., Strukov, N.A. and Yagudayev, M. D. AUTHORS:

Luminescence of Crystal Phosphors on Excitation with lons. TITLE:

(Lyuminestsontsiya kristallofosforov pri vozbuzhdenii

ionami.)

PERIODICAL: Optika i Spektroskopiya, 1957, Vol. III, Nr. 4,

pp.351-355. (USSR).

This paper was read at the Fifth All-Union Conference ABSTRACT:

on Luminescence (Tartu, June 1900). It reports results of the work on luminescence on excitation with ions, carried out in the Department of Physics in Mid-Asian State University imeni V.I. Lenin, in Tashkent. The work was partly published in the local journals (Refs.1-4).

Ions of "medium" energies were employed. These "medium" energies are defined as the energies at which no

ionization occurs due to the Coulomb interaction in the

motion of the particles. The upper limit of such "medium" energies is of the order of p-100 keV, depending on the ionic mass. Only a small number of papers have

appeared so far on luminescence due to ionic excitation

Card 1/6

01-4-9/26

TO A TO THE PROPERTY OF THE PR

Luminescence of Crystal Phosphors on Excitation with Ions.

A STANDARD CONTRACTOR OF THE PROPERTY OF THE P

The present authors used comparison of (Refs.5-8). ionoluminescence with cathodoluminescence as the basis of their measurement. The same place on the screen was irradiated by an ion beam and an electron beam. source of ions and electrons was used, together with a focussing system and a receiver, which included the screen. Uniformity of the ionic beam was controlled by magnetic To avoid charging of the screen (on which phosphor was placed) by the ion beam, the phosphor was a thin layer (0.3-0.0 mg/cm2) on an aluminium base, and it was excited by ion pulses of low density. improve the conductivity of the phosphor it was heated The main series of measurement during measurement. lonoluminescence of ZnS-Ag, ZnS was made on willemite. ZnSCdS-Cu, CaSO4-Mn, CaMgSi2O6-Ti, and sublimates XI-T1, NaI-T1, CdBr2 and CdI2, activated with Mn and Pb. phosphors were excited with positive ions of alkali metals of energies from 0.5-6 keV. The spectral distribution and brightness of emission, and their dependences or the type of exciting ion, on its energy and on the derree of irradiation (ageing effect) were studied.

Card 2/6

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51-4-5/26

Luminescence of Organal Phosphors on Excitation with Ious.

The spectral distribution of emission was the same for ioro- and a thoushwirescence. Ageing of phosymors under the action of lo. a does not change the spectral distribution of edission. Brightness of emission is proportional to ioric-current density (from 10-10 to 10-6 A/cm2).
The light yiels an ionolumi seasonce depends on the type of ion (heavier ions excite the phosphor less). Table I gives values of the ratio of the light yield of ionolimin) scence to the light yield of cathodoluminescence (at the same energies) for the phosphor ZngSiO4-An, Asing Li, Na, K and Cs ions of 1.2-6.0 keV. For o For other phosphors the values of this ratio are of the same order. Under the action of ions the phosphor is decomposed and the luminescent properties deteriorate. The rate of decomposition of a phosphor by various ions of the same every is the same; it rises with the ion energy. The Thate of decomposition of various phosphors is very different. . (lehl (Ref.9) fo nd that the rate of ageing on ion irradiation in prosphors based on zinc sulphide does not Lepend on the activator concentration. The present

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01-4-9/26

Luminesc

ce of Crystal Phosphors on Excitation with Ions.

authors found the same to be true for the phosphor CaSO4-Mn. Decomposition (ageing) due to Na, K and Js Decomposition by Li ions is ions is irreversible. partly reversible. The process of ageing is due to structural damage produced by the moving ion in the crystel. The results obtained in the study of ionoluminescence may be used to explain certain aspects of interaction of ions with solids. Although the path or an ion in a crystal is much less than the path of an electron of the same energy, the density of ionization (or, more correctly, the density of excitation) due to an ion is of the same order as that of an electron. mechanism of ionization proposed is that on approach of an ion to an atom in a crystal, and on displacement of such an atom, a strong deformation of the electron clouds In such a process the excess of potential energy may be transferred as the energy of excitation to the electrons in such clouds. Depth of the action of the ions in a crystal can also be iound from ionoluminescence. This was done as Follows. First the phosphor was irradiated with ions until luminescence was

Jard 4/6

51-4-9/20

Luminescence of Crystal Phosphors on Excitation with Ions.

destroyed (the ageing effect discussed above) in the layer penetrated by ions. The depth of this layer was measured by comparing cathodoluminescence on a fresh and an aged phosphor; in the latter case electrons had to traverse the layer in which luminescence was destroyed by ions before they (electrons) could excite Table 2 shows the estimates of depth the phosphor. of penetration (in R) of Li, Na, K and Cs ions of 2.4-6.0 keV in willemite. This depth of penetration by ions is found to increase with ion energy. Once again the behaviour of lithium was quite different from that of the other three ions. A method similar to that just described for measurement of the penetration depth can be used to find thickness of the layer removed (pulverized) by irradiation of a phosphor with ions. There are 2 tables and 11 references, o of which are Slavic.

Card 5/6

51-4-9/26

TO SECURE AND ASSESSMENT OF THE PROPERTY OF TH

Luminescence of Crystal Phosphors on Excitation with Ions.

of General Physics, Central Asia State University, ASSOCIATION: Chair

(Kafedra obshchey fiziki Sreaneaziatskogo Tashkent.

gosudarstvennogo universiteta, Tashkent.)

January 31, 1957; submitted to the Editor of "Izvestiya AN SSSR" on December 8, 1956. SUBMITTED:

AVAILABLE: Liberry of (ongress.

Card 6/6

48-1-11/75

SUBJECT:

USSR/Luminescence

AUTHORS:

Nosenko, B.M., Strukov, N.A. and Yagudayev, M.D.

TITLE:

Luminescence of Crystallophosphors Excited by Ions (Lyuminest-

sentsiya kristallofosforov pri vozbuzhdenii ionami)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1957,

Vol 21, #5, pp 701-703 (USSR)

ABSTRACT:

The following phosphors: Zn2SiO4-Mn; ZnS-Ag; CaSO4-Mn;

CuS; CdS-Cu, and sublimate phosphors: KJ-Tl; NaJ-Tl; CdBr2; CdJ2, activated by Mn and Pb were investigated. The excitation

was performed by positive ions of Li, Na, K, Pb and Cs with

energies from 0.5 to 6 kev.

The basic method of investigation was comparison of ionolumi-

nescence with cathodoluminescence.

Results of this investigation are as follows:

The spectral composition of ionoluminescence does not differ

from that obtained by electronic excitation.

Card 1/3

49 21/4

The state of the s

TITLE:

Luminescence of Crystallophosphora Excited by Ions (Lyuminestsentsiya kristallofosforov pri vozbuzhdenii ionami)

The luminescence spectra of a "fresh" phosphor and a phosphor subjected to a prolonged irradiation by an ion beam are the same. The brightness of luminescence is proportional to the density of ion current and linearly depends on ion energy.

The light output of ionoluminescence depends on the mass of ions. For willemite it amounts to 4 % of cathodoluminescence output at excitation by Li<sup>†</sup> and about 0.5 % at excitation by Cs<sup>†</sup>. This quantity is different for various phosphors.

The deterioration of luminescence (aging) of a phosphor is determined by the density of irradiation. The speed of aging is different with various phosphors and does not depend on the concentration of activator. Zinc-sulfides are most liable to aging, and alkali-haloid sublimate-phosphors are the least liable.

A scheme of the aging process and mechanism of ionization, which is brought about by a heavy particle in the solid body, is suggested by the authors.

The report was followed by a discussion.

Card 2/5

48-5-31/56

THE TANK THE PARTY OF THE PARTY

TITLE:

Luminescence of Crystallophosphors Excited by Ions (Lyuminest-

sentsiya kristallofosforov pri vozbuzhdenii ionami)

One Russian reference is cited.

INSTITUTION: Central-Asian State University im. Lenin

PRESENTED BY:

SUBMITTED: No date indicated

AVAILABLE: At the Library of Congress.

Card 3/3

Effect of temperature on changes in mechanical properties and the deformation of alloy steels. Mash.Bel. no.6:63-77 159.

(Steel alloys--Testing)

# "APPROVED FOR RELEASE: 08/26/2000

# CIA-RDP86-00513R001653610017-1

\$/123/60/000/011/002/007 A033/A133

AUTHOR:

Strukov, N. A.

TITLE:

Mechanization and automation of foundry shops of big-lot and mass

production

PERIODICAL:

Liteynoye proizvodstvo, no. 11, 1960, 2 - 8

TEXT: The author gives a detailed description of the various prerequisites necessary for the mechanization and automation of foundry processes and enumerates a number of automatic installations which have been developed during the last year in the Soviet Union. He points out that an efficient utilization of conveyer-type casting lines is only possible if specialized and mechanized installations for the preparation and reconditioning of molding mixtures are provided for each automatic casting line. During the last years quite a number of molding automatics have been designed in the Soviet Union, including the rotary four-position jar-ramming machines of the Giproavtoprom type CT3 (STZ), 3MJ(ZIL), ACK-4-1 (AFK-4-1) and ACK-4-2 (AFK-4-2), the models 94265 and 94267 developed by NIILITMASh, intended mainly for molds of medium size, the rotary six-position jar-ramming machines of Rostsel mash. NIILITMASh and Orgstankiprom design, the rotary four-position sand-

Card 1/4

S/128/60/000/011/002/007 A033/A133

Mechanization and automation of Loundry shops ...

blowers of NIITAvtoprom for small-sized molds, the two-position shuttle-automatic of the "Krasnaya Presnya" Plant and a number of other molding automatics intended for the manufacture of molds with the dimensions 1,000 x 000 mm, although it is necessary to produce molding automatics which are able to manufacture molds of 1,500 x 1.000 mm. The author points out that with the utilization of multi-positioned rotary automatics It should be possible to mold on each position different castings, i.e. to mold the same number of different items as the automatic has positions. An automatic shaking out of the molds will be facilitated in future by using drags without cross pieces, as they are already employed by the GAZ, ZIL, KhTZ, STZ, MTZ and other plants. Although the use of drags with cross pieces complicates the automation of shaking out operations these difficulties have already been overcome for the production of cylinder blocks at the GAZ Plant. The author points out that the further improvement of automatic shake out installations for drags with cross pieces will play an important role for the automation of shaking out operations. Automatics of the shuttle and rotary type are the most efficient for the big-lo' production of cores. Recently the models 914 and 928 automatic sandblowers have been developed by the "Krasnaya Presnya" Plant equipped with two tilting and drawing installations each. It is necessary to equip also the 28B-3, 28B-5, 28B-7, 28B-9 and 28A-10 core sandslingers with tilting mechanisms. For dry-

Card 2/4

# "APPROVED FOR RELEASE: 08/26/2000

CIA-RDP86-00513R001653610017-1

5/12c/60/000/011/002/007 A033/A133

Mechanization and automation of Coundry shops ...

ing purposes the most efficient drier is of the vertical conveyer-type with automatic loading and unloading. The author points out that, since every molding line requires a special metal grade for the castings which are produced on these lines, each casting line should be provided with its own cupola furnace, because this will contribute to reduce rejects, increase the casting quality, etc. The automation of molding and core mixture preparation and reconditioning is effected with the aid of the models 115 and 116 centrifugal mixers. The author then gives A survey on the transportation and hoisting equipment necessary for the automation and mechanization of foundry processes and emphasizes the necessity of eliminating as far as possible manual work in the cleaning sections of foundry shops in order to relieve the workers from the hard physical labor and improve the sanitary conditions. The author then enumerates the machinery necessary for the mechanization and automation of cleaning operations, like semi-automatic emery grinders, which for mass production castings should be incorporated in special flow lines, electrocontact equipment for the deburring of castings, suspension conveyers of the pusher type with program (ontrol, etc. The author then comments on the storage organization which, in mechanized and automated foundry shops should ensure a high degree of mechanization of loading and unloading operations. Despite the improvements which have been achieved in the mechanization and automation of foundry

Card 3/4

Mechanization and automation of Jundry shops ...

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production the author considers the present stage of automation in foundry shops of big-lot and mass production as being still unsatisfactory. He criticizes the fact that, although quite a number of new projects in this field have been developed, their realization is lagging behind, and cites a number of examples for an incomplete automation and mechanization in some foundry shops. He then touches the problem of improving the labor conditions in foundry shops which will contribute to increase the production and comments on some new automated and mechanized molding and casting lines which he describes in detail. There are 7 figures.

Card 4/4

20813

9.6150 24.3500(1137,1138,1395) S/048/61/025/003/001/047 B104/B201

AUTHORS:

Nosenko, B.M., and Strukov, N.A.

TITLE

Excitation of crystal phosphors by ions

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, v. 25, no. 3, 1961, 314 - 317

TEXT: This is a reproduction of a lecture delivered at the 9th Conference on Luminescence (Crystal Phosphors), which took place in Kiyev from June 20 to 25, 1960. The authors examined the luminescence and the change of properties of the following phosphors: Zn5-Ag (K-5), 55% Zn5.45% CdS-Ag (L-4), 62%Zn5.38%CdS-Ag (K-38), 90%Zn5.10%CdS-Cu (L-10), Zn0-Zn (K-20), Zn2-Si0\_4-Mn (K-35), CaWO\_4 and CaSO\_4-Mn. These phosphors with Li -, Na -, K+-, Rb+- and Cs+-ions were excited with energies of up to 6 kev. The brightness of luminescence was proportional to the current density (10-10 - 10-8 a/cm<sup>2</sup>). At low ion energies, the brightness E is a parabolic function, while at high ion energies it is a linear function of the ion energy. The threshold energy is between 1.5 and 0.7 kev. Table 1 gives the

Card 1/5

Excitation of crystal phosphors ...

values  $B = E_N/E_3$  (in %) for an ion energy of 6 kev. Here,  $E_N$  is the brightness at ion excitation,  $E_3$  the one at cathode luminescence under otherwise equal conditions. Phosphor aging caused by ion excitation leads to a drop of brightness; the individual phosphors differ by the course of the aging process. On irradiation by a charge of  $Q_1/2 = 6 \cdot 10^{-8}$  Coulomb/cm<sup>2</sup> the aging process of the second and third abovementioned phosphor (Group 1) drops to 50%, while it drops to 2 - 5% at a radiation phosphor (Group 1) drops to 50%, while it drops to 2 - 5% at a radiation dose of  $5Q_1/2$ . The last three phosphors possess a  $Q_1/2 = 4 \cdot 5 \cdot 10^{12}$  particle/cm<sup>2</sup>, and the aging process of these three phosphors, which form group 2, has a hyperbolic course. The remaining phosphors form group 3. They possess a  $Q_1/2 = (0.5 - 1.5) \cdot 10^{12}$  particle/cm<sup>2</sup>, and aging stops at about  $5Q_1/2$ , where brightness then amounts to 15 - 30%. In ZnO-Zn and about  $5Q_1/2$ , where brightness then amounts to 15 - 30%. In ZnO-Zn and about  $5Q_1/2$ , where brightness then amounts to 15 - 30%. In ZnO-Zn and about  $5Q_1/2$ , where brightness then amounts to 15 - 30%. In ZnO-Zn and about  $5Q_1/2$ , where brightness then amounts to 15 - 30%. In ZnO-Zn and about  $5Q_1/2$ , where brightness then amounts to 15 - 30%. In ZnO-Zn and about  $5Q_1/2$ , where brightness then amounts to 15 - 30%. In ZnO-Zn and about  $5Q_1/2$ , where brightness then amounts to 15 - 30%. In ZnO-Zn and about  $5Q_1/2$ , where brightness then amounts to 15 - 30%. In ZnO-Zn and about  $5Q_1/2$ , where brightness then amounts to 15 - 30%. Snow and the depth of with aging. A study of the excitation depth of a crystal and the depth of crystal destruction, as a consequence of which aging occurs, showed that

Card 2/5

Excitation of crystal phosphors ...

the inequality  $d_e > d_d$  holds, where  $d_e$  is the excitation depth and  $d_d$  the destruction depth. This is explained by the fact that any luminescence vanishes under sufficiently long ion irradiation. Relation  $d_{od} = bV_n$  is obtained in an estimation of the depth of the complete crystal destruction. In this relation, V is the ion energy,  $d_{od}$  in Mg/cm<sup>2</sup>, b and  $\beta$  being given in Table 2. This relation exhibits an error of 5 - 30% and is derived from the threshold energy of cathodoluminescence. There are 2 tables and 6 references: 3 Soviet-bloc and 3 non-Soviet-bloc. The 3 references to Engferences: 3 Soviet-bloc and 3 non-Soviet-bloc. The 3 references to Engferences: 4 Soviet-bloc and 5 non-Soviet-bloc. The 3 references to Engferences: 5 Soviet-bloc and 5 non-Soviet-bloc. The 3 references to Engferences: 5 Soviet-bloc and 5 non-Soviet-bloc. The 3 references to Engferences: 60, 1059 (1953).

ASSOCIATION:

Kafedra optiki Tashkentskogo gos. universiteta im. V.I. Lenina (Department of Optics of Tashkent State University

imeni V.I. Lenin)

Card 3/5

Excitation of crystal phosphors ...

Таблица 1

Значения  $B=E_{\mathfrak{n}}/E_{\mathfrak{p}}$  при  $V=\mathfrak{h}$  keV (в %)

1108	ZnS Ag	ZnS.CdS —	ZnS.ZnSe — Ag	Zus.Cds —	ZnO-Zn	Zn <sub>2</sub> SiO <sub>4</sub> —	CaWO.	C3SO4 — Mn	
Li <sup>+</sup> Na <sup>+</sup> K <sup>+</sup> Rb <sup>+</sup>	2,2	5 1 1 0,35 0.35	3,1 0,8 0,1 0,1	3 2,3 0,95	5,8 5 4,5 4,0	2,9 2,1,3 0,8	6.4 2,5 1,8 1,1 0,7	6,7 1,8 1,4 0,8	

X

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Excitation of crystal phosphors ...

Таблица 2

	Li		Na		к		Rb		C4		Среднее вначение	
4[2+14]2[14+2]2	b	β	ь	а	b	ß	ь	ß	ь	В	β	
ZuS — Ag ZuS,CdS — Ag ZuS,CdS — Ag ZuS,CaS — Cu ZuO — Zu ZuSiO <sub>1</sub> — Mu CaWO <sub>4</sub> CaSO <sub>4</sub> — Mu Cpequee anagenue	14 5 3,9 2,8 2 2 3,5	1.24 1,15 0,92	9,5 3,3 7 2,4 1,7	0,65 0,87 0,68 1,08 1,0 0,9 0,86	9,5 3,0 7 3 1,1 1,4	0.9	7,5 3,0 0,5 1,65 1,2 1,25 1	0,5 0,7 7 1,1 0,85 0,92 0,9 0,95 0,81	4,1 3,0 1,65 0,87 0.85 1,0	0,68 0,7 0,93 1,25 0,9 0,9	0,64 0,78 0,79 1.0 0,93 0,95 0,9 0,94 0,86	

Legend to Table 2: 1) mean values

Card 5/5

STATE STEW N. A.

ACCESSION IR: AP4025750

5/0201/64/000/001/0113/0121

AUTHOR: Strukow, M. A.

TITIE: Investigation of the deformation of alloyed steels

SOURCE: AN BSSR. Izv. Seriya fiziko-tekhnicheskikh nauk, no. 1, 1964, 118-121

TOPIC TAGS: steel deformation, 40Kh steel, 40 KhN steel, deformation

resistance

ABSTRACT: The plastic properties and deformation resistance of type 40km and 40 km pressure worked steels were investigated. On the basis of the results a method is proposed for plotting optimum thermomechanical regimes in the plastic working of metals. Tension and compression under static and dynamic forces were studied from 295 to 1473° K at 100° intervals. The results show the effect of temperature and the rate and degree of deformation on the plasticity, deformation resistance, and rupture point of the alloys investigated. Diagrams for plasticity, deformability, and deformation resistance are plotted for the given temperature intervals. Diagrams of specific resistance at different deformation rates show the effect of temperature and rate on deformation resis-

Card 1/2

ACCESSION IR: AP4025750

tance. The author concludes that resistance to deformation increases with increases in the rate of deformation, especially at high temperatures. The method makes it possible to determine the best technological process for plastic working or metals at given temperatures and rates of deformation, and to determine the temperature intervals which will make maximum use of the plastic properties of metals.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 10Apr64

ENCL: 00

SUB CODE: ML NO REF SOV: 002

OTHER: COO

\$/0250/64/008/005/0304/0308

ACCESSION NR: AP4040924

AUTHOR: Strukov, N. A.

TITLE: Effect of deformation rate on the resistance to deformation and ductility of alloy steels at high temperatures

SOURCE: AN BSSR. Doklady\*, v. 8, no. 5, 1964, 304-308

TOPIC TAGS: alloy steel, deformation rate, deformation rate effect, deformation resistance, deformation specific work, temperature effect, high temperature testing, tensile strength, ductility, 40Kh alloy steel, 40kh alloy steel

ABSTRACT: The effect of deformation rate and temperature on the deformation resistance of structural steels 40Kh and 40KhN was investing ated. The deformation resistance was tested by the upsetting of cylindrical specimens 9 mm in diameter and 12 mm high and by conventional tensile tests: both types of tests were conducted at temperatures from 20 to 1200C. The upsetting rates used were 0.117 and 8800 mm/sec, with corresponding deformation rates of 0.01 and 736 sec. The tension rates were 0.083 and 6200 mm/sec, with corresponding

Cord 1/2

YEOOYAN, V.L. [translator]; ZHABREY, I.P. [translator]; KOLCHANOV, V.P. [translator]; MOISEYEVA, V.M. [translator]; PHTRZIKO, V.S. [translator]; PHTRZIKO, I.M. [translator]; STHUKOV, M.D. [translator]; TITOVA, N.A. [translator]; KAMIN, V.Ye., red.; ROMAHOVICH, G.P., red.; REZOUKHOVA, A.G., tekhn.red.

[Present-day studies of the tectonics of foreign countries] Voprosy sovremennoi zarubezhnoi tektoniki; sbornik statei.

Moskva, Izd-vo inostr.lit-ry, 1960, 498 p. Translated articles. (MIRA 13:12)

(Geology, Structural)

USSR/Cultivated Plants - Grains.

L-2

: Ref Zhur - Biologiya, No 16, 25 Aug 1957, 69246 Abs Jour

AND REPORTED THE PROPERTY OF T

Atanasov, P.G., Strukov, N.I. Author

Inst

The Watering Regimen During Periodic Irrigation of Rice. Title

: Kratkie itogi nauch.-issled. rabot za 1955 god, Krasno-Orig Pub

dar, "Sov. Kuban", 1956, 112-116

The maximum yield of rice in the lowlands of Kuban Abstract

(38.9 centners/hectare) was obtained with inundation. The irrigating regimen of rice upon periodic irrigation should be based on practical utilization of water during phases of its development. The optimal moisture of the soil is 70 to 80% of the field moisture capacity; the irrigation norms should be figured on humidifying the

soil to a depth of 60 to 80 cm.

Card 1/1

BELYAEV, Viktor Vasil'yevich, kandidat tekhnicheskikh nauk; LEBENEV, Boris Mikhaylovich, kandidat tekhnicheskikh nauk; STRUKOV. N.I., kandidat tekhnicheskikh nauk, retsenzent; ZHILINSKIY, V.A., kandidat tekhnicheskikh nauk, redaktor; YEGORKINA, L.I., redaktor izdatel'stva; UVAROVA, A.F., tekhnicheskiy redaktor

[Sprinkling machines; construction, calculation, operation and testing] Dozhdeval'nye mashiny; konstruktsii, raschet, ekspluatatsiia i ispytaniia. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1957. 231 p. (MIRA 10:5) (Sprinkler irrigation)

L 12418-63

EWP(q)/EWT(m)/BOS AFFTC/ASD JD/WB

ACCESSION NR: AP3001412

s/0020/63/150/004/0852/0855

AUTHOR: Tomashov, N. D.; Strukov, N. M.; Mikhaylovskiy, Yu. N.

06

TITLE: The effect of alternating current frequency on the speed of corrosion of titanium in sulfuric acid

SOURCE: AN SSSR. Doklady, v. 150, no. 4, 1963, 852-855

TOPIC TAGS: electrochemical properties of titanium, corrosion properties of titanium, polarization of titanium, titanium

ABSTRACT: The investigation of the electrochemical and corrosion behavior of titanium during its polarization with a sinusoidal variable current frequency showed that, with an increase of frequency of the polarizing current, the polarizing capability of the electrode in the anodic and in the cathodic halfperiod is decreased. This is additionally connected with the presence of current capacity and the explanation of easier electrochemical reactions on the surface of the electrode in the anodic and cathodic half-periods. The corrosion of titanium at lower frequencies and low densities of the polarizing current is greater than the corrosion at higher frequencies. However, a reverse effect is observed with very high densities of the polarizing current. The

L 12418-63

ACCESSION NR: AP3001412

examination of experimenting material shows that the variable current intensifies the process of anodic dissolution of titanium as a result of the destruction of the passive state of the electrode in the cathodic half-period. It appears that at high frequencies of the variable current in the anodic half-period when the surface of metal contains mainly the adsorbed oxygen, the activation of metal in the cathodic half-period is much greater, and thus, the dissolution of titanium is greater. At low frequencies the metal surface is covered mainly with the chemically bound oxygen in the form of oxide layers which is not completely reduced in the cathodic half-period and therefore the active surface of the metal is smaller and the speed of dissolution of the metal is smaller. Orig. art. has: 5 graphs.

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry of the Academy of Sciences SSSR)

SUBMITTED: 29Jan63

DATE ACQ: 01Jul63

ENCL: 00

SUB CODE: 00

NO REF SOV: 003

OTHER: OOO

Card 2/2

TOMASHOV, N.D.; STRUKOV, N.M.

Effect of the alternating current frequency on the passivation of titanium. Dokl. AN SSSR 152 no.5:1177-1180 0 '63. (MIRA 16:12)

1. Institut fizicheskoy khimii AN SSSR. Predstavlenc akademikom A.N.Frumkinyn.

TOMASHOV, N.D.; STRUKOV, N.M.

的数据表现的数据的的连节1985年的更加性的数据数据数据数据的 1985年的 1985年,1985年,1985年,1985年,1987年,1987年,1987年

Effect of alternating current frequency on the electrochemical and corrosion behavior of iron in hydrochloric acid. Zhur. fiz. khim. 39 no.2:418-422 F \*165. (MIRA 18:4)

1. Institut Sizicheskoy khimii AN SSSR.

ACC NR: AP7002390

SOURCE CODE: UR/0020/66/171/005/1134/1137

AUTHOR: Tomashov, N. D.; Strukov, N. M.; Vershinina, L. P.

ORG: Institute of Physical Chemistry, Academy of Sciences, SSSR (Institut fiziches-koy khimii Akademii nauk SSSR)

TITIE: Effect of continuous renewal of the surface of certain metals on the cathodic process of hydrogen evolution

SOURCE: AN SSSR. Doklady, v. 171, no. 5, 1966, 1134-1137

TOPIC TAGS: cathode polarization, hydrogen, metal surface, lead, tin, iron, nickel, palladium

ABSTRACT: Cathodic polarization curves were recorded for Pb, Sn, Fe, Wi and Pd in 1 N H2SQ4 under argon at 20°C while the surface of the metal was being continuously renewed by means of an emery wheel. The electrode was cathodically polarized by an external current source. The data indicate that on nickel, the discharge of H+ ions with the formation of adsorbed atoms and their removal from the electrode surface take place at comparable rates, so that during continuous renewal of the surface the effect of hydrogen overvoltage drop on this metal is appreciable. On lead, however, the hydrogen overvoltage is determined solely by the slowness of the step of discharge of MT ions, and therefore the continuous renewal of the surface does not substantially affect the hydrogen overvoltage on lead. From the standpoint of their behavior during

Cord 1/2

UDC: 541.13

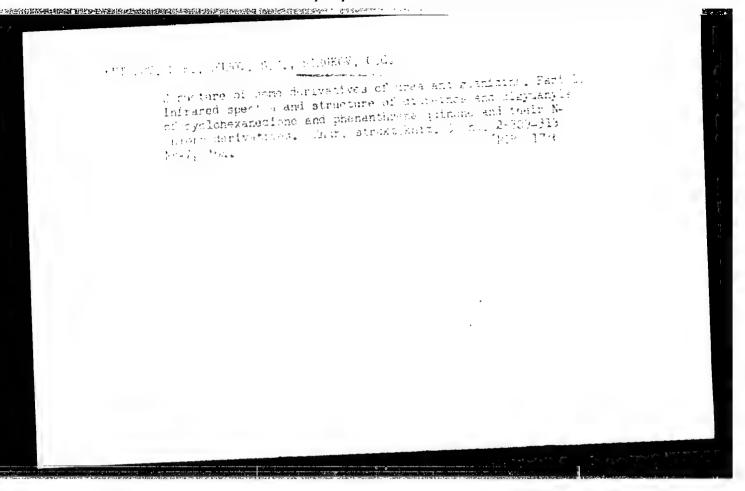
ACC NR: AP7002390

cleaning, the metals studied are divided into two groups: those which adsorb hydrogen wall (Fe, Ai, Pd), and those which adsorb it poorly (Pb, Sn). In the latter group, hydrogen overvoltage is solely determined by the slow discharge step. In the former group, hydrogen overvoltage is determined not only by this step, but also by the slowness of the steps involving removal of hydrogen from the metal surface. Thus, for calladium it was found that at the current density employed, 10 mA/cm<sup>2</sup>, 2/3 of the total overvoltage is determined by the slowness of the steps involving removal of hydrogen from the 'd surface, and only 1/3 by the slow discharge step. The paper was presented by Academician Spitsyn, V. I., 22 Mar 66. Orig. art. has: 3 figures and 2 tables.

SUB CODE: 07/ SUBM DATE: 17Feb66/ ORIG REF: 006/ OTH REF: 004

4,

Card 2/2



STRUKOV, O.G., YEMEL'YANOVA, A.D.; DUBOV, S.S.; KOZLOVA, N.V.

Infrared spectra and structure of some secondary amines, derivatives of cyanuric chloride and substituted anilines. Zhur. strukt. khim. 6 no.2:218-226 Mr-Ap '65. (MIRA 18:7)

LIMAR', T.F.: UVAROVE, K.A.: PULACHEVA, A.F., SOVVIEW, A.S.: REPNOLA, I.M.:
MAKOVUKATA, F.F.: SOLOMEINA, G.I.; FOLMATOV, YELD.; BOBYFENKO, YU.
YE.: KOGAN, F.I.; KOYALENKO, F.N.: IVANCTA, M.I., FOKIN, A.V.:
KOMAROV, V.A.: SOROCEKIN, I.N.; IAVYLOVA, S.M.; FAVIEL', A.A.:
GORFLIK, G.N.; DAUKSPAS, V.K. [Leukses, W.], FIKUNAYTE, L.A.:
[Pikunatte, L.], SHARIPOV, A.Kh., SHABALIN, I.I., STEPNOVA, G.M.;
SHMILT, YE.V., BUPOV, S.S., STEUKOV, O.F.

Scientific research papers of the members of the All-Union Mendeleev Therical Society (trief information). Zhur. VHKC (MINA 18:8)

I. Ion-tskiy filiai Vsescyuznogo nausnin-isslodovarel'skogo instituta khimicheskikh reaktivov i colto chistykh khimicheskikh vechchestv (for Liver', Mravora policheva). I. Ural'skiy nauchnomotokovatel'skiy khimicheskiy institut (for Shubin, hednova, issledovatel'skiy khimicheskiy institut (for Shubin, hednova, Makovskaya, Solomeina). 3. Chelyabinskiy filial Gosudarstvennogo Makovskaya, Solomeina). 3. Chelyabinskiy filial Gosudarstvennogo nauchno-sasled vatel'skogo i proyektnogo instituta mineral'nykh pigmentov (folmatov, Bobyrenko). 4. hoptovskiy-na-Dinu universitet (for Kogan, Kovalenko, Ivanova). 5. Leningradskiy tekhnologicheskiy institut imeni Lensoveta i Institut mineral'nykh pigmentov (for Ravdel', Gorelik). 6. Vil'nyusskiy gosudarstvennyy universitet imeni Kpoukusa (for Dauksnus, Fikunayte). Usichnomiversitet imeni Kpoukusa (for Dauksnus, Fikunayte). Usichnomiversitet imeni Kpoukusa (for Dauksnus, Policekhnioneckiy institut imeni Kirova (for Stepnova, Shmidt).

KOVALENKO, V.F.; SANNIKOV, S.S.; STRUKOV, P.I.

Calibration of the NKMZ, 4,000-ton, crankshaft forging press by means of "crashers." Kuz.-shtam. proizv. 2 no.11:35-37 N '60.

(MIRA 13:10)

(Power presses-Testing)

**的时间数据的过程性的时间有关的时间的**现代的影响的对象数据证据证明,这种意识的对象由于

S/182/60/000/011/010/016 A161/A029

AUTHORS. Koval

Kovalenko, V.F., Sannikov, S.S., Strukov, P.I.

TITLE

Calibrating a 4,000-Ton PAGE [NEMZ] Crank Hot-Stamping Press

by the Crashers Method

PERIODICAL. Kuznechno-shtampovochnoye proizvodstvo, 1960, No. 11, pp.35-37

TEXT: Some foreign firms as well as some Soviet plants have begun producing hot stamping presses of the crank type fitted with effort meters (the NKMZ in Kramatorsk, the ZTMP works in Voronezh). The meters have to be calibrated on site after installation of the press. A 4,000-ton press produced by the NKMZ has been calibrated at the Gorkovskiy avtozavod (Gor kiy Automobile Plant) with the assistance of ENIKMASh. Two NKMZ-made effort meters are placed on the front, one on each column. They are scale instruments (Fig. 1) recording the strain in the press stand that is directly proportional to the applied effort. The stand elongation is determined in a 466-mm section by an indicator (8) with 0.003 mm scale divisions and 3.05 mm measurement range. When the press is under load, the deformation in the stand pulls the rod (7) which is fixed in the top

Card 1/8

S/182/60/000/011/010/016 A161/A029

Calibrating a 4.000-Ten HKM3 (NKMZ) Crank Hot-Stamping Press by the Crashers Method

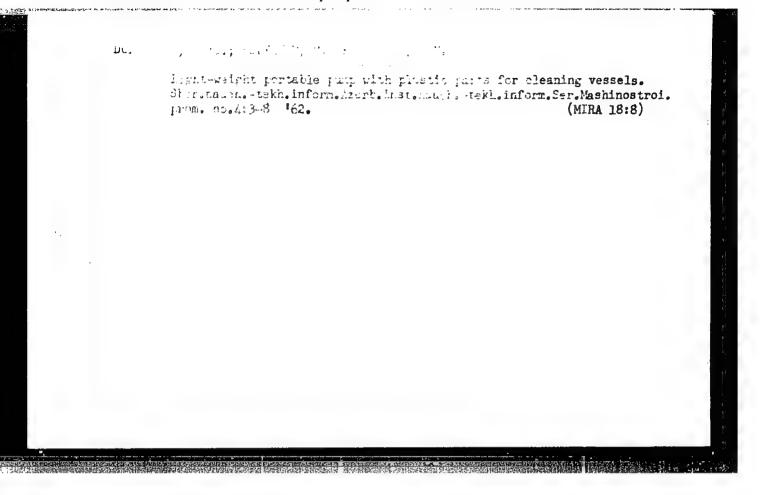
plank (5) and slides in a bore in the frame (11' The screw stop (12) on the rod (?) exerts pressure on the measuring leg of the indicator and makes the hand swing The brake (9) of the leg (10) is loaded with a spring set on the rod (4) and adjusted by the plug (3). The brake holds the indicator hand on the scale division reached under load on the press. The brake must be retracted by the rod (4) to put the indicator to zero. Efforts corresponding to the indicator readings are given on the plate (1). As no loading device with 4,000-ton effort was available at the Gor kiy Automobile Plant, the press had to be calibrated using the "metod kresherov" Abstractor's note: The term "kresher" suggests
A "crasher" is illustrated in Fig. 2 and is a block (crashers method ) English "crashing"; of '45" steel of cylindrical shape. The blocks were calculated for 500ton pressure They were placed on especially prepared die inserts (Fig. 4). The calibration results are given in Table 2. A diagram has been plotted from these data (Fig. 5). (It can be seen in the table that the left indicator gave lower readings, which was probably due to uneven tightening Card 2/8

S/182/60/000/011/010/016 A161/A029

Calibrating a 4,000-Ton HKM3 (NKMZ) Crank Hot-Stamping Press by the Crashers Method

of the tie bolts on the left and right press stand side. The diagram was set up using the mean readings of two indicators). The arithmetic mean of the indicator readings had to be taken to determine the corresponding work pressure in the diagram. The data were filled into the table (1). It is mentioned that it would be better to use a diagram engraved on a metal sheet and that calibration must be repeated after retightening of the bolts. Some design deficiencies were revealed in the NKMZ indicators. An improved indicator design has been developed at ENIKMASh under supervision by Engineer L.P. Shipanov. [Abstractor's note: The new design is not described]. There are 5 figures.

Card 3/8



## "APPROVED FOR RELEASE: 08/26/2000

# CIA-RDP86-00513R001653610017-1

Improved no.6:25-		disinfection of eg	gs. Mias. ind.	SSSR 28 (MIRA 11:1)
l. Voron	ezhskiy yaytsesu (Disinfection &	ishil'nyy zavod. and disinfectants)	(Eggs, Dried	.)

SOV/137-58-8-16863

S.G.

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 8, p 92 (USSR)

AUTHOR: Strukov, S.P.

了打造自建程的**的现在形式,在**是是不是一个人,但是一个人,但是一个人,但是一个人,但是一个人,但是一个人,但是一个人,但是一个人,也是一个人,也可以是一个人,也可以

TITLE Grooving and Rolling of Nr-22 Beams with a Reduced Number of Passes (Kalibrovka 1 prokatka balki Nr 22 s sokrashchennym

chislom prokhodov)

PERIODICAL: Tr. Nauchno-tekhn. o-va chernoy metallurgii. Ukr. resp.

pravl., 1957, Vol 2, pp 169-172

ABSTRACT: An analysis of the groovings employed at other plants and of the special features of the rail and structural mill at the im.

Petrovskiy Plant results in the elaboration of a system of calculation of grooving for the rolling of Nr-22 beams. The result was the elaboration and introduction of grooving for the rolling

of these beams in 7 section passes.

1. Rolling mills-Ferformance

2. Mathematics

Card 1/1

#### "APPROVED FOR RELEASE: 08/26/2000

#### CIA-RDP86-00513R001653610017-1

STRUYCV4V8A8

600

1. STRUKOV, V. A.

2a. USSR (600)

- 4. Bladder Discases; Hernia
- 7. Strangulation of the bladder in hernia of the linea alba following Kocher's abdominal hysteropexy, Akush. i gin., No. 1, 1952. Iz Kafedry Akusherstva i Ginekologii (Nach. Chlen-Korrespondent Akademii)
- 9a. Monthly List of Russian Accessions, Library of Congress, March 1952. UNCLASSIFIED.

  Meditsinskikh Nauk SSSR Prof. K. M. Figurnov) Iz Voyenno-Meditsinskoy Akademii
  imeni S. M. Kirova.

# STRUKOV, V.A.

- Experimental Company of the Compan

Subcutaneous emphysema in labor. Akush. i gin. no.6:78 N-D 154. (MLRA 8:2)

Iz Voyenno-meditsinskoy akademii imeni S.M.Kirova.
 (EMPHYSEMA
 subcutaneous, in labor)
 (IABOR, complications
 emphysema, subcutaneous)

#### "APPROVED FOR RELEASE: 08/26/2000

#### CIA-RDP86-00513R001653610017-1

STRUKOV, V.A., kandidat meditsinskikh nauk. (Leningrad)

Surgical treatment of urinary incontinence in women and anatomotopographic peculiarities in the structure of the sphincter apparatus of the urinary bladder. Akush. i gin. no.5:45-48 S-0 \*55. (MIRA 9:1)

(URINATION DISORDERS incontinence, surg. & anat. of sphincter appar.)

```
STRUKOV, V.A., kandidat meditsinskikh nauk

Case of transfusion of Rh-incompatible blood. Sov.med. 20 no.5:
82-84 My '56.
(BLOOD TRANSFUSION, complications,
Rh-incompatibility (Rus))
(Rh FACTORS,
incompatible blood transfusion (Rus))
```

Transing series sequeles from transfering incompatible blood.

Vrach.dele no.61039-221 de 455
(Biccolumnansurus)

STRUKOV, V.A., kand.med.nauk, mayor meditsinskoy sluzhby.

Intrauterine death of the fetus resulting from an umbilical hematoma. Akush. i gin. 34 no.3:104 My-Je 158. (MIRA 11:6) (UMBILICUS--TUMORS) (FETUS, DEATH OF)

STRUKOV, V.A., kand.med.nauk

X-ray diagnosis of tumors of the small pelvis during labor. Vest. rent. i rad. 34 no.4:87-88 Jl-Ag '59.

(LABOR, compl.)

(PRLVIS neoplasms)

STRUKOV, V.A.; GOVOROV, D.A.

Antibacterial therapy in intrahospital infection ("hospitalism"). Antibiotiki 10 no. 10:934-940 0 165. (MIRA 18:12)

1. Kafedra akusherstva i ginekologii (zav. - prof. G.I.Dovzhenko) Voyenno-meditsinskoy ordena Lenina akademii imeni Kirova, Leningrad. Submitted Febr. 17, 1965.

STRUKOV, V.G., nauchnyy sotrudnik

Deilephila linenta, var. livornica Esp. on grapevinces. Zashch. rast.ot vred.i bol. 5 no.2:47 F '60. (MIRA 15:12)

1. Krymskaya oblastnaya opytnaya stantsiya.
(Crimea—Grapes—Diseases and pests)
(Crimea—Hawkmoths)

APPROVED FOR RELEASE: 08/26/2000 CIA-RDP86-00513R001653610017-1"

等的用品。但是随时就是**是对外的。** 

L 15546-63

BDS

ACCESSION NR: AP3005527

5/0115/63/000/007/0030/0031

52

AUTHOR: Gorelikov, N. I.; Klistorin, I. F.; Matushkin, G. G.; Strukov, V. G.

TITLE: Specialized digital voltmeter (

SOURCE: Izmeritel naya tekhnika, no. 7, 1963, 30-31

TOPIC TAGS: voltmeter, digital voltmeter, voltage regulator tube

ABSTRACT: Development is described of a new digital voltmeter for precise measurement of stabilization voltage and temperature coefficient in the manufacture of silicon voltage-regulator tubes. The new instrument, based on the digital voltmeter described by I. F. Klistorin, et al. (Izvestiya VUZ tob.)

Priborostroyeniye, 1962, v. 5, no. 2), is in essence an electromechanical compensator with digitwise balancing. A circuit diagram of the new voltmeter is supplied, and its components specified. Its error is ± 0.02% or less. The voltmeter proved to be reliable in operation under actual factory conditions and permitted considerable saving in labor.

ASSOCIATION: Inst. of Automation and Electrometry, SC AN SSSR

Card 1/2/

STRUKOV, V.M., inzh. (g. Ashkhabad)

Organization of mixed crews at washing and steaming stations.

Zhel. dor. transp. 41 no.1:83-84 Ja '59. (MIRA 12:1)

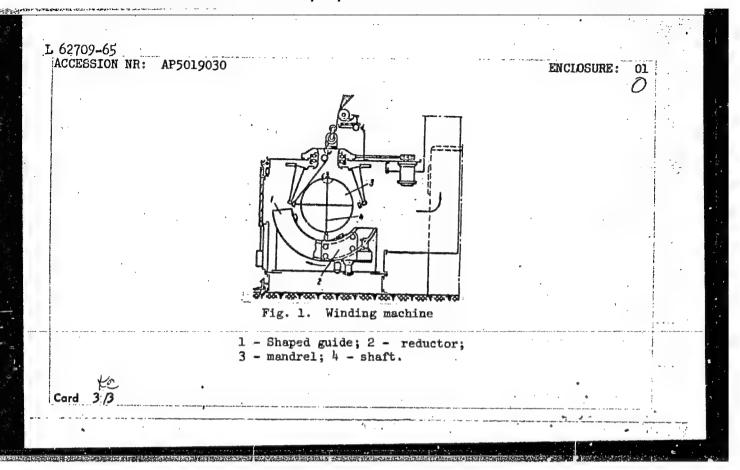
1.Zamestitel' nachal'nika sluzhby vagonnogo khozyaystva Ashkhabad-skoy dorogi.
(Railroads--Cars--Maintenance and repair)

# "APPROVED FOR RELEASE: 08/26/2000

## CIA-RDP86-00513R001653610017-1

62709-65 EPF(c)/EPA(s)-2/EMA(h)/EMP(j)/EMP(k)/EMT(d)/EMT(1)/EMT(m)/EMP(h)/T/P(1)/EMA(d)/EMP(w)/EMP(v) Pc-4/Pf-4/Pr-4/Ps-4/Pt-7/Peb EM/EM/M/JD UR/0286/65/000/012/0065/0066 UR/0286/65/000/012/0065/0066	
000.189 22.002.5	
THOR: Gavrilov, I. K.; Filippov, D. A.; Strukov, V. M.; Blatov, V. S.; Shalimov, S.; Vul, N. I.; Ivanov, A. M.; Belyakov, V. V.; Frolov, R. A.; Khantsis, R. Z.; Indriyevskaya, G. D.; Zelenskiv, E. S.; Kuperman, A. M.; Dobrovol'skiy, A. K.; Chereliyevskiy, A. B.	-
TLE: Winding machine. Class 32, No. 172009/5	
URCE: Byulleten' izobreteniy i tovarnykh znakov, no. 12, 1965, 65-66	
PIC TAGS: glass reinforced plastic, plastic filament, fiber glass, filament nding, winding machine, filament wound article	
STRACT: This Author Certificate introduces a machine for fabrication of glass- inforced plastic articles by filament winding 5 The machine includes a drive with reductor and a mandrel mounted on a rotating shaft. To fabricate spherical shapes	
e machine is equipped with profiled guides transmitting to the mandrel a tilting tion around the vertical axis simultaneously with a rotation around the axis (see g. 1 of the Enclosure). Orig. art. has: 1 figure.	
ard 1/32	

ACCESSION NR: AP5019030 ASSOCIATION: Organizatsiya (Organization of the State	gosudarstvennogo komiteta po aviatsio Committee on Aviation Engineering SSSI	nnoy tekhnike SSSR
SUBMITTED: 19May64	ENCL: 01	SUB CODE: MT, IE
NO REF SOV: 000	OTHER: 000	ATD PRESS: 4064
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ard 2/3		



L 11260-66 (FI) EWT(d)/EWT(m)/EWP(w)/EWP(J)/T/EWP(k)/EVIA(h)/ETC(m) EM/W	W/RM
ACC NR: AP3028475 SOURCE CODE: UR/0286/65/000/020/0056/0057	
INVENTOR: Gavrilov, I. K.: Filippov, D. A.: Strukov, V. M.; Blatov, V. S.; Shalimov,  A. S.; Vul. N. 135 Ivanov 1454. Belvekov 1450. Bulletov, V. S.; Shalimov,	7
A. S.; Vul. N///13/5 Ivanov//A54; Belyakov/Vy-5V.; Frolov/R. A.; Khantsis, R. Z. W. 5.	
Del Dobrovol'skiy A. K.	0
UII E - 17,5,5	*
ORG: none 77133	
TITLE: Method of fabricating fiberglass shells. Class 32, No. 175624	
SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 20, 1065, 56-57	Ç
TOPIC TAGS: shell, cylindrical shell, fiberglass shell, shell fabrication, fiber-	
glass winding, solid fuel rocket, rocket case	
ABSTRACT: This Author Certificate introduces a method of fabricating shells from	
1 A- COUNTY OF A BALLETT WILL BE THE TO THE	
of a fiber guide which rotates around the setteething of fiber by means	
SUB CODE: 11,19 SUBM DATE: 02Jul64/ ATD PRESS: 447	
$1  \mu \omega$	
Card 1/1	
2	-
	1

S/051/63/014/002/002/026 E032/E314

AUTHOR: Strukov, V.S.

TITLE: Interpretation of the short-wave wing of the 2852 Å resonance magnesium line

PERIODICAL: Optika i spektroskopiya, v. 14, no. 2, 1963, 184-188 TEXT: The 2852 Å line has continuous wings on the short-and long-wave sides, both in the emission and absorption spectrum. It is now suggested that these two wings are due to  $1\sum_{g}^{+}-1\prod_{g}^{+}$  and  $1\sum_{g}^{+}-1\sum_{u}^{+}$  transitions, respectively. It is

shown that if the intensity distribution in the wing is assumed to be of the form

 $I(0) = 4\pi AR^{2}(0)dR(0)$  (1)

where A is a constant and R is the distance between the two atoms of  ${\rm Mg}_2$  for which the emission and absorption at frequency  $\vartheta$  is possible, then the intensity distribution in the short- and long-wave wings is respectively given by

Card 1/2

Interpretation of ....

S/051/63/014/002/002/026 E032/E314

$$I_{Sh} (0) d0 = \frac{4\pi A(c_a - c_d)^{1/2}}{(0_{Sh} - 0_{res})^{3/2}}$$
 (5)

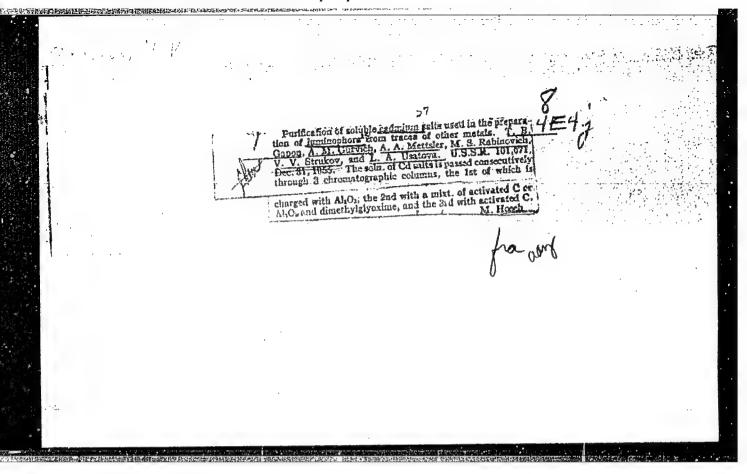
$$I_{\ell}(0) d0 + \frac{4\pi A(C_b - C_a)^{1/2}}{(v_{res} - v_{\ell})^{3/2}}$$
 (6)

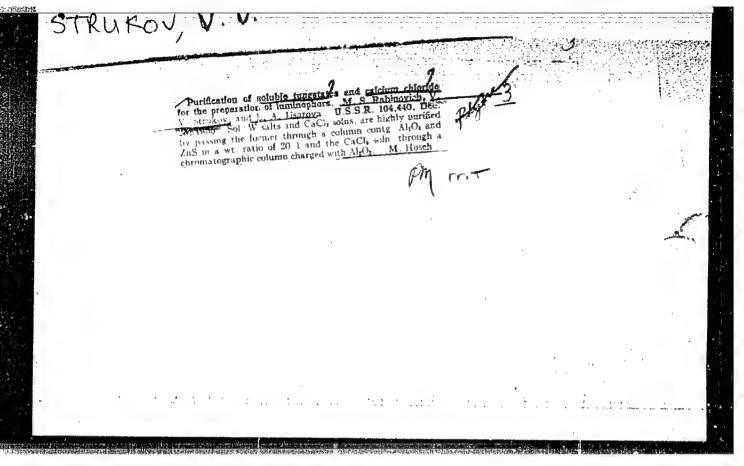
where  $C_{a,b,d}$  are the Van der Waalsconstants (the interactions are assumed to be of the form  $\sim R^{-6}$ ). Experimental studies of the 2852 Å/excited in an AC arc discharge at atmospheric pressure show that these expressions do, in fact, hold. The slope of the log I( $\aleph$ ) versus  $\log(\aleph-\aleph)$  curves was found to be 1.53 ± 0.02 and 1.52 ± 0.05 for the long- and short-wave wings, respectively. There are 2 figures.

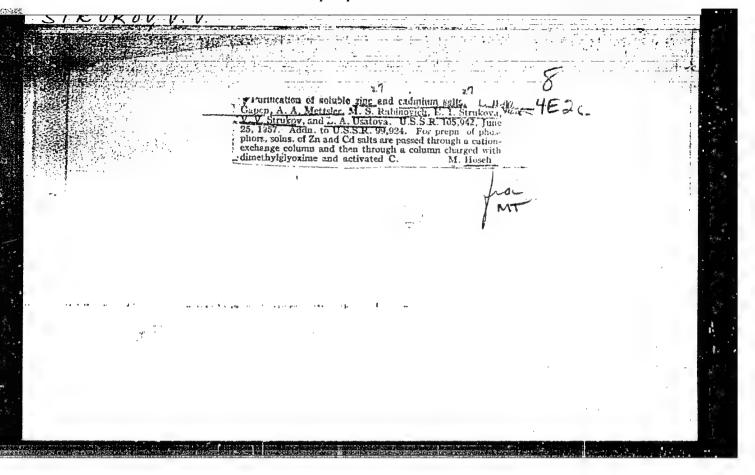
SUBMITTED:

March 1, 1962

Card 2/2







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ASEYEVA, I.V., KUCHAYEVA, A.G., PALITSKIN, N.P., STRUKOV, V.V.

Soviet gibberellin; production methods and activity testing. Vest. Mosk. un. Ser. biol., pochv., geol., geog. 14 no.3: 3-12 159. (MIRA 13:7)

l. Kafedra biologii pochv Moskovskogo universiteta, Institut mikrebiologii AN SSSR i Farmatsevticheskiy zavod im. Karpova.

(GIBBERELLINS)

YEVSEYEV, SIDOROV, Aleksandr Ivanovich; ZIMAN, Yan L'vovich; STRUKOV, Y.V., redaktor; VASIL'YEVA, V.I., redaktor izdatel'stva; KUZ'MIN, G.M., tekhnicheskiy redaktor

[Aerial photography] Aerofotos\*emka. Moskva, Izd-vo geodezicheskoi lit-ry, 1956. 258 p. (MLRA 9:12) (Photography, Aerial)

FOPADEYKIN, Vitaliy Ivanovich; STAUKOV, Vladimir Vladimirovich; KREKSHINA, L., red.

[On the march, friends and tourists! One day routes] V pokhod, druz'ia turisty! Odnodnevnye marshruty. 2. dop. izd. Moskva, Mosk. rabochii, 1964. 494 p.

(MIRA 17:11)

STRUKOVA, A.I.

[Brief methodological textbook for practical studies in pathological anatomy] Kratkee metodicheskee posobie k prakticheskim zamiatiiam pe patelogicheskei anatomii, Moskva, Medgiz, 1956. 113 p. (MLRA 9:5) (ANATOMY, PATHOLOGICAL—STUDY AND TEACHING)

BLACHAN, G.F., professor; DYMSHITS, R.A., professor; GRACHEVA, N.A.; ZUDIN, V.S.; STRUKOVA. A.P. (Chelyabinsk)

Use of radioiddine in the treatment of thyrotoxicosis [with aumnery in English, p.124]. Probl.endok. i gorm. 3 no.1:50-56 [MLRA 10:6]

1. Iz kafedry gospital'noy terapii (zav. - prof. G.F.Blagman) na base l-y dorozhnoy bol'nitsy Yuzhno-Ural'skoy zheleznoy dorogi i kafedry patologicheskoy fiziologii (zav. - prof. R.A.Dymshits) Ghelyabinskogo meditainskogo instituta (dir. - prof. G.D.Obraztsov)

(HYPERTHYROIDISM, therapy, radioiddine, review (Rus))

(IODINE, radioactive, ther. of hyperthyroidism, review (Rus))

STRUKOVA, A.Yu.

Prophylaxis and treatment of cracked nipples. Zdrav.Belor. 5 no.8:41-42 Ag 59. (MIRA 12:10)

1. Iz Minskogo gorodskogo rodil'nogo doma (glavnyy vrach - dotsent I.S.Legenchenko).

(BREAST--DISEASES)

#### "APPROVED FOR RELEASE: 08/26/2000

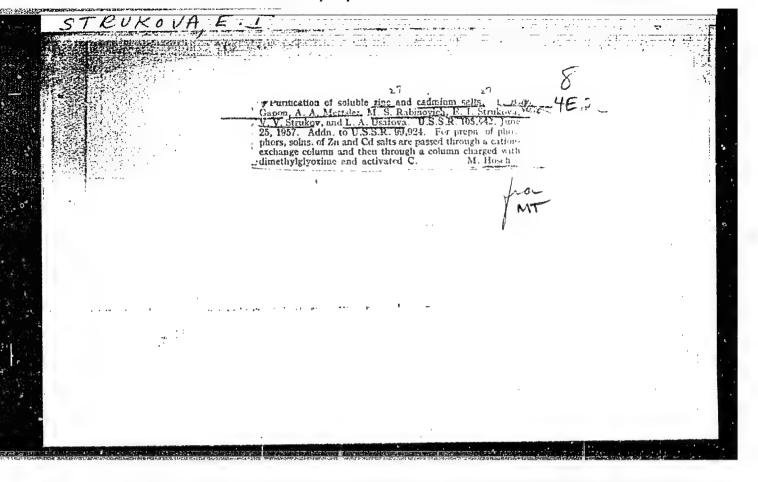
#### CIA-RDP86-00513R001653610017-1

STRUKCTA, A. Yu.

Disthermosurgical treatment of diseases of the cervix uteri. Zdrsv.Bel. no.3:9-12 62. (MIRA 15:5)

l. Iz akushersko-ginekologicheskoy kliniki Belorusskogo instituta usovershenstvovaniya vrachey (zaveduyushchiy kafedroy - dotsent I.S. Legenchenko) i Minskogo gorodskogo rodil'nogo doma (glavnyy vrach A.I. Bogdanova).

(UTERUS--DISEASES) (ELECTROSURGERY)



GUREYEV, Petr Antonovich; STRUKOVA, L.G., red.; TARASOVA, N.M., tekhn. red.

[Benefits to persons directed to work in construction projects through organized recruitment] L'goty dlia lits, napravliaemykh v poriadke organizovannogo nabora na predpriiatiia (stroiki).

Moskva, Gos. izd-vo iurid. lit-ry, 1962. 51 p. (MIRA 15:5)

(Labor contract) (Wages—Construction workers)

OSTRIT, O.YA., SCHIYEVA, Z.I., SKVIRSKAYA, E.A., MAGAYEVA, S.V., RABAYAN, S.A., SIRJKOVA, L.G., VAKAR, M.D., AZRIPA, YA.I.

"The trophic function of the nervous system and the nervous dystrophic process."

Report submitted, but not presented at the 22nd International Congress of Physiological Sciences.

Leiden, the Netherlands 10-17 Sep 1962

OSTRYY, O. Ya.; SKVIRSKAYA, Ye.A.; BABAYAN, S.A.; STRUKOVA, L.G.

Neurcdystrophic process and morphological changes in the cardiovascular system. Trudy Inst. norm. i pat. fiziol. AMN SSSR 6: 140-142 '62 (MIRA 17:1)

1. Laboratoriya nervnoy trofiki ( zav. - doktor med. nauk 0. Ya. Ostryy) Instituta normal'noy i patologicheskoy fiziologii AMN SSSR.

#### "APPROVED FOR RELEASE: 08/26/2000 C

情**知。这些是我们的实现的对抗,我们也是我们的自己,他们就是这些人的,我们就是这个人,我们**就是这些人的是是不是一个人,不是一个人

CIA-RDP86-00513R001653610017-1

LAZHECHNIKOVA, Yelizaveta Aleksandrovna; STRUKOVA, L.G., red.;
KHLOPOVA, L.K., tekhn. red.

[Pension insurance for servicemen under the law on state pensions]Pensionnoe obespechenie voennosluzhashchikh po zakonu o gosudarstvennykh pensiiakh. Moskva, Gosiurizdat, 1962. 65 p.

(Pensions, Military)

SMIRNOV, Stanislav Aleksandrovich; STRUKOVA, L.G., red.; KHLOPOVA, L.K., tekhn. red.

《各种的新建设区和社会的各种共和国的社会社会的企业的企业的企业的企业的企业的企业的企业的企业,但是一个企业工会的企业。

[In what cases government pensions are awarded to collective farm members] V kakikh sluchaiakh gosudarstvennye pensii naznachaiutsia chlenam kolkhozov. Moskva, Gosuurizdat, 1963. 75 p. (Collective farms--Pensions)

Trusters, Armadly Livovich; (TRUNOVA, L.T., red.

[Nonstart angloyees: Nechtariye rabitaini. Morkva,
Izd-vo "lüridichskaia literaturs," 1964... 73 p.

(Mind 18:1)

Cheartent, i.A.; The First, v.c.; Shefera, M.L.; ITTEV, J.V.

Shquid - Vapor phase equilibrium in the system isosuty i anhydride - n-butyrallenyle at amongheric pressure. Zaur.

Size. knim. 36 no.7:1965-1967 Jalle.

(Mill. 19:3)

ACC NR: AP7005538

SOURCE CODE: UR/0075/66/021/011/1354/1357

AUTHOR: Strukova, M. P.; Kotova, V. N.

化结构医现代的结构对它中央结构的正式的生态或不足够的自然分裂,这个是是是可有关键。

ORG: Moscow Institute of Fine Chemical Technology im. M. V. Lomonosov

(Moskovskiy institut tonkoy khimicheskoy tekhnologii)

TITLE: Determination of phosphorus and titanium in organoelemental compounds

SOURCE: Zhurnal analiticheskoy khimii, v. 21, no. 11, 1966, 1354-1357

TOPIC TAGS: phosphorus analysis, titanium analysis, organophosphorus compound, photometry, organoelemental compound, organotitanium compound

ABSTRACT: A rapid method has been developed for determining phosphorus and titanium in organophosphorotitanium compounds. The test material is decomposed by sodium peroxide in a calorimetric bomb, then the phosphate is titrated with a lanthanum nitrate solution (titanium is masked by complexone III). Titanium is determined photometrically in the form of a peroxide complex compound. The absolute experimental error is  $\pm$  0.2-0.3%. A single determination of phosphorus and titanium takes about 1.5 hr. Orig. art. has: 2 tables. [Authors' abstract] SUB CODE: 07/SUBM DATE: 30Mar65/ORIG REF: 005/OTH REF: 016/ [KP]

Cord 1/1 UDC: 543, 80

TERENT'YEVA, O.F.; KANDEL', O.M.; STRUKOVA, M.T.; KOLBASNIKOVA, A.N.; KOZLOVA, A.A.

The time of molasses production and the manufacture of citric acid.

Trudy VKNII no.16:104-108 '62. (MIRA 16:5)

(Molasses) (Citric acid)

ANDREYENKO, G.V.; STRUKOVA, S.M.

Effect of urokinase on the fibrinolytic activity of the blood. Biokhimiia 27 no.2:327-329 Mr-Ap '62. (MIRA 15:8)

1. Laboratory of Physiology and Biochemistry of Blood Cloting, Faculty of Biology and Soil Science State University, Moscow. (UROKINASE) (FIBRINOLYSINS) (BLOOD -- COAGULATION)

KUDRYASHOV, B.A.; ANDREYENKO, G.V.; YEGOROV, N.S.; STRUKOVA, S.M.; LANDAU, N.S.

Fibrinolytic agents isolated from some saprophytic fungicultures. Dokl. AN SSSR 153 no.4:939-942 D \*63. (MIRA 17:1)

1. Moskovskiy gosudarstvennyy universitet im. M.V. Lomonosova. Predstavleno akademikom V.N. Shaposhnikovym.

STRUKOVA, S.M.; ANDREYENKO, G.V. (Moskva)

والمرابعة والمرابعة والمرابعة والمتعارض والمتع

Study of the thrombolytic activity of aspergillin M in experimental thrombosis. Arkh. pat. 27 no.4123-29 '65.

(MIRA 18:5)

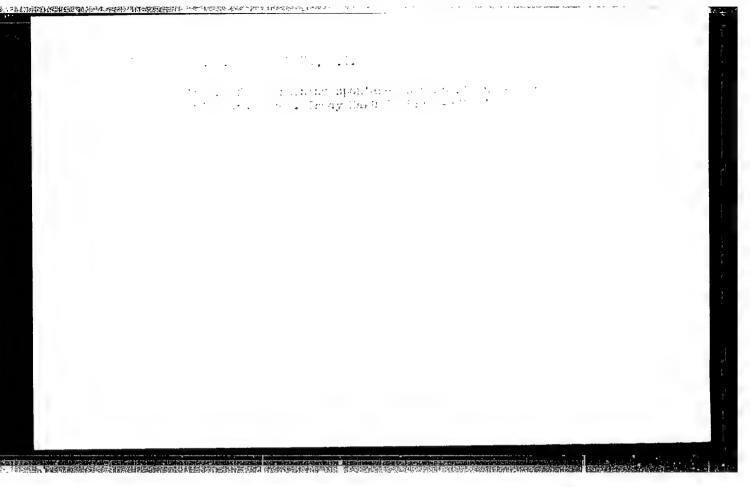
1. Laboratoriya fiziologii i biokhimii svertyvaniya krovi (zav. - prof. B.A.Kudryashov) Moskovskogo gosudarstvennogo universiteta imeni Lomonosova i kafedra patologicheskoy anatomii (zav. - chlen-korrespondent AMN SSSR prof. A.I.Strukov) I Moskovskogo ordena Lenina meditsinskogo instituta imeni Sechenova.

GOL'DBERG, K.M.; GEL'FANDBEYN, N.M.; Prinimali uchastiye: BARIL'OTI, A.S.; KAPUSTINA, A.I.; LINKOVA, L.M.; STRUKOVA, V.A.; SERKOVA, L.V.; FRADKINA, TS.Ye.

Anticorrosive alkyd GF-020 priming. Lakokras.mat.i ikh prim. no.2:71-74 62. (MIRA 15:5)

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L 44689-66 ENT(d)/ENT(m)/T-2/ENP(f)
ACC NR. AP6005366 (A)

SOURCE CODE: UR/0413/66/000/001/0115/0116

AUTHOR: Strukovskiy, S. I.

453

ORG: none

231

TITLE: Two-cycle internal combustion engine with axial cylinders. Class 46, No. 177707 /announced by Ul'yanovskiy Factory of Small Displacement Engines (Ul'yanovskiy zavod malolitrazhnykh dvigateley)

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 115-116

TOPIC TAGS: internal combustion engine, engine piston, pump

ABSTRACT: This Author Certificate presents a two-cycle internal combustion engine with axial cylinders, with rotating cylinders, and with a blow-through pump of analogous construction. To simplify the mechanism of the piston drive, the cylinder blocks of the engine and the pump are produced separately and their axes are placed at an obtuse angle to one another (see Fig. 1). Corresponding pistons of the engine and of the pump are rigidly attached to one another.

Card 1/2

UDC: 621.432.4--128.9

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STRATE WEATS ITT.

MINKEVICIUS, A., glav. red.; KRIAUCIUNAS, J., red.; MASTAUSKIS, St., red.; SLAUTA, V., red.; STRUKCINSKAS, M., red.; ZAJANCKAUSKAS, P., red.; ZIEVYTE, Z., red.; SADAUSKAITE, A., red.; SARKA, S., tekhn. red.

[Practices in controlling plant diseases, pests, and weeds]Praktiskos kovos priemones pries augalu ligas, kenkejus ir piktzoles; straipsniu rinkinys. Vilnius, Valstybine politines ir mokslines literaturos leidykla, 1962. 165 p. (MIRA 16:3)

1. Lietuvos TSR Mokslu Akademija, Vilna. Botanikos institutas. (Lithuania--Plant, Protection of)

Case of cirrhosis of the liver with fatal hemorrhage of the esophageal veins in a 14-year-old boy. Vrach.delo no.10:1091 0 '57. (MIRA 10:12)

1. Klinika propedevticheskoy terapii (zav. - prof. I.T.Stukalo) i klinika obshchey khirurgii (zav. - prof. A.M.Serednitskiy) Livovskego meditsinskogo instituta na baze Vtoroy gorodskoy bol'nitsy. (LIVER-CHIRRHOSIS) (HEMORRHAGE)

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RUMANIA / Organic Chemistry. Synthetic Organic Chemistry. : Ref. Zhur. - Khimiya, No. 15, 1958, No. 50312 Abs Jour : Arventiev, B.; Strul, M.; Wexler, H.; Cahane, D. Author Inst : Preparation and Study of Some Aryl Thioures -Title naphthyl Thioureac. IV Oxy and methoxy-

: Studii si cercetari Stunt. Acad. RPR Fil. Iasi. Orig Pub Chim., 1956, 7, #1, 24-30.

: Oxy-, methoxy and carboxymethoxy derivatives of Abstract -naphthyl thiourea (I) were synthesized. The toxicity of the prepared substances was studied, Heating the solution of 1-amino-2 naphtholchlorohydrate (II) with NH4NCS(III) in glacial CH3COOH (IV) yielded 2-oxy-I (V). By analogy 4-oxy-I (VI) was obtained from l-amino-4-naphthol chlorohydrate (VII) and III. Methylation of V

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RUMANIA / Organic Chemistry. Synthetic Organic Chemistry.

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: Ref. Zhur. - Khimiya, No. 15, 1958, No. 50312 Abs Jour

> in order to obtain 2-methoxy-I (VIII) led to a formation of a previously synthesized 2-amino, B-naphthoxyazole (IX). The latter compound may be also prepared by interaction of V and CICH2-COOH in an alkaline medium and by heating of alcoholic solution of V with HgO. 4-methoxy chlorohydrate (X) or 2-methoxy-1-naphthylamine chlorohydrate when reacted with III or IV yielded, correspondingly, 4-methoxy-1 (XII) and VIII. Reaction between III, 1-amino-4 naphthoxy acetate (XIII) and IV yielded 1-thiouretedine-4 naphthoxy acetate (XIV), while reaction between at identical conditions led to I. Heating 4g

Card 2/4

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STRUL M.

2. JAJ (NB) (NAY)

Synthesis and study of several arylthiourea compounds.

V. Methyl- and halo-α-naphthylthioureas. B. Arventiev, M. Strul, H. Wexler, and D. Cahane (Chem. Inst. "Petru Poil." Acad. R.P.R., Iasi, Romania). Acad. rep. populare Romine, Studii cercetări chim. 5, 611-17(1957); cf. CA 53, 8083i.—In continuation of previous syntheses of new thioureas in the α-naphthylthiourea series, addnl. α-naphthylthioureas were synthesized, with methyl groups and halogens as substituents, in order to study the toxicity of these compds. 4- and 8-Chloro-α-naphthylthiourea and 5-bromo-α-naphthylthiourea were prepd. by heating (4 hrs. over a water bath) the resp. 4- and 8-chloro-α-naphthyl-amine and 5-bromo-α-naphthylamine with NH<sub>4</sub>CNS in glacial acetic acid. The 4-bromo-α-naphthylthiourea was prepd. by hydrolysis (boiling 20 min. in 5% aq. NaOH) of N-benzuyl-N'-(4-bromo-α-naphthyl)thiourea, which was prepd. by heating (6 min. over a water bath) 1.2 g. NH<sub>2</sub>-CNS in 6 cc. abs. acetone with 2.1 g. benzoyl chloride, adding 3.3 g. 4-bromo-α-naphthylamine in 7 cc. abs. acetone, and heating (15 min.). 2-Methyl-α-naphthylthiourea was prepd. by heating the HCl salt of 2-methyl-α-naphthyl-amine (prepd. by redn. with Fe and AcOH of 1-nitro-2-methylnaphthalene) with NH<sub>4</sub>CNS in glacial AcOH. Since α-naphthylthioureas could be prepd. by heating N, N'-di-α-naphthylthioureas with ammonia under certain conditions, the N, N'-diarylthioureas could be prepd. by heating to the above thiourea was prepd. by treating the HCl salt of 2-methyl-α-naphthyl)-ithiourea was prepd. by treating the HCl salt of 2-methyl-α-naphthyl-α-naphthyl-α-naphthylamine with alc. KOH, filtering off the KCl, adding CS<sub>2</sub>, and heating (8 hrs. over a water bath), and

是自己的对象的。 第一个人,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就

N, N'-bis(8-chloro-\alpha-naphthyl)thiourea by treating 8-chloro-\alpha-naphthylamine in CS<sub>1</sub> with alc. KOH and heating (10 hrs. over a water bath). 2-Methyl-\alpha-naphthylthiourea was more toxic (towards white rats), while the chlorosubstituted compds. were as toxic and as bitter, the bromosubstituted as toxic (the 4-Br more bitter, the 5-Br less

bitter than) as a-naphthylthioures itself. 12 references.

STRUL, M.; ARVENTIEV, M.; WEXLER, H.

A new synthesis of 1-arylaino and 2-arylamino-napthlozazoles, p. 333.

STUDDI SI CERTARI STIMTIPICE, SIME. Iasi, Rumaini Vol. 8, no. 1, 1957

Monthly List of East European Accessions ( EEAI, LC, Vol. 8, no. 9, Sept., 1959.

Uncl.

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Country : RMMANIA

Category: Organic Chemistry. Organic Synthesis

Abs Jour: RZhKhim., No 17, 1959, No. 60890

Author : Arventiev, D.; Mexler, H.; Strul, M.

Inst :

Title : New Synthesis of 1-Arylamino- (X - and 2-Aryla-

mino- & -Naghtherazoles

Orig Pub: Studii si cercetari stiint. Acad. RPR. Fil.

Iosi. Chim., 1957, 8, No 2, 333-340

Abstract: In the reaction of ArNCS with chlorhydrates of

1-aminomaphthol-2 (sp., KOH, 12 hours at approx. 20°) and 2-aminomaphthol-1 (water sp., C'13COONa, 24 hours at approx. 20°) are obtained respectively N-Ar-N'-(2-oxymaphthyl-1)-thioureas (I) and N-Ar-

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Country : RUMANIA

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Category: Organic Chemistry. Organic Synthesis

Abs Jour: RZhKhim, No M., 1959, No. 60890

-N'-(1-exymalathyl-2)-thioureas (II) (presented are: Ar, yield in (), melting point in °C): For I: Colls, 69, 176-179 (decompt; from alc.); 2-Cl3Colls, 69, 176-177 (decompt; from alc.); 4-Cl3Colls, 60, 176-177 (decompt; from alc.); for II: Colls 75, 142-143 (from chloroform-petr. ether); 2-Cl3Colls, 80, 158-159 (from chloroform-ligroin); 3-Cl3Colls, / s c]/76, 139-141 (from chloroform-petrol. ether); 4-Cl3Colls, 84, 142-143 (from chloroform-petrol. ether). In the action of (Cl3)2SOs, and of dilute NaOH (approx. 20°) I and II give respectively 2-Ir-amino- (6-maphthoxazoles (III) and 1-Ar-amino- (7-maphthoxazoles (IV) (presented

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Country : RUMANIA

Category: Organic Charastry, Organic Synthesis

Abs Jour: RZhKhim., No 17, 1959, No. 60890

are: Ar, nelting point in °C): for III: C5H5, 170 (from alc.); 2-CH3C6H4, 146 (from alc.); 4-CH3C6H4, 205-207 (from alc.); for IV: C6H5, 230-231 (from toluene); 2-CH3C6H4, 189-191 (from toluene); 3-CH3C6H4, 190-191 (from benzene); 4-CH3C6H4, 2M4-2M5 (from toluene). In the heating of II (Ar = C5H5 and 4-CH3C6H4) in C6H3 along with IV (Ar = C5H5 and 4-CH3C6H4) 1-kercepto-X-naphthoxazele with the melting point of 261-262° is evidently forced. When 2-oxy-1-naphthylthicureas are heated up to melting point, it leads evidently to the formation of di- /3-naphthoxazolylamine of approx. 300° melting point. The mechanism of III and IV formation from I and II

Card : 3/4